Statement of Basis of the Federal Operating Permit

Eastman Chemical Company

Site/Area Name: U1 - Power and Services Physical location: 300 Kodak Blvd Nearest City: Longview County: Harrison

> Permit Number: O1970 Project Type: Renewal

Standard Industrial Classification (SIC) Code: 2869 SIC Name: Industrial Organic Chemicals

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: February 18, 2014

Operating Permit Basis of Determination

Permit Area Process Description

This application area, Area U1 Power and Services, consists of a powerhouse and a utilities distribution system.

The powerhouse consists of a water treatment plant and steam generation boilers. Boiler feed water is manufactured from raw water and steam is manufactured from boiler feed water in a continuous process. Boilers are fueled by natural gas and process off gas. Major steps include clarification, filtration, and deionization of water and steam generation. Emissions are from boilers, fugitive equipment leaks, and wastewater. The main pollutants are VOC, PM-10, PM-2.5, CO, NOx and SOx, and Ammonia.

The utilities distribution system includes distribution of steam, firewater, cooling tower water, lake cooling water, natural gas, nitrogen and instrument air. Major operations are pumping and cooling. Emissions are from engines, cooling towers, fugitive equipment leaks, and wastewater. The main pollutants are VOC, PM-10, PM2.5, CO, NOx, SOx, and Chlorine.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: O1436, O1968, O1971, O1972, O1973, O1974, O1975, O1976, O1977, O1978, O1979, O1981, O1982

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

Major Pollutants VOC, SO2, PM, NOX, HAPS, CO	-		
		Major Pollutants	VOC, SO ₂ , PM, NOX, HAPS, CO

Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - o Additional Monitoring Requirements
 - New Source Review Authorization Requirements

- Compliance Requirements
- o Protection of Stratosphere Ozone
- Permit Location
- o Permit Shield (30 TAC § 122.148)
- Attachments
 - o Applicable Requirements Summary
 - Unit Summary
 - Applicable Requirements Summary
 - Additional Monitoring Requirements
 - Permit Shield
 - New Source Review Authorization References
 - o Compliance Plan
 - o Alternative Requirements
- Appendix A
 - o Acronym list

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting

requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception-Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Stationary Vents subject to 30 TAC Chapter 111 not addressed in the Special Terms and Conditions

All other stationary vents subject to 30 TAC Chapter 111 not covered in the Special Terms and Conditions are listed in the permit's Applicable Requirement Summary. The basis for the applicability determinations for these vents are listed in the Determination of Applicable Requirements table.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	No
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	No
CAIR (Clean Air Interstate Rule)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.

- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at

www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
UD017ACE	40 CFR Part 60, Subpart JJJJ	o CFR Part 60, lbpart JJJJ (I	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification after June 12, 2006.	Related Standard: §60.4243(g) was removed
			Manufactured Date = Date of manufacture is on or after July 1, 2008 to December 31, 2010.	from both pollutant rows (CO and HC+NOX) because the
			Displacement = Engine displacement is greater than or equal to 225cc.	unit is a small HP engine that does not utilize the emission
			Test Cell = The SI ICE is not being tested at an engine test cell/stand. Certified = Purchased a certified SI ICE.	controls listed in the citation.
			National Security = The SI ICE is not eligible for exemption due to national security. Operation = Operating and maintaining the certified SI ICE and control device according to manufacturer's written instructions.	
			Temp Replacement = The SI ICE is not acting as a temporary replacement.	
			Horsepower = Maximum engine power less than or equal to 25 HP.	
			Fuel = SI ICE that uses gasoline.	
			Service = SI ICE is an emergency engine.	
			Commencing = SI ICE that is commencing new construction.	
UD017ACE	E 40 CFR Part 63, Subpart ZZZZ	FR Part 63, 63ZZZZ-0003	Brake HP = Stationary RICE with a brake hp less than 100 hp.	
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.	
			Service Type = Emergency use.	
			Installation Date = The emergency use stationary RICE was installed on or after June 12, 2006.	
			Stationary RICE Type = 4 stroke spark ignited rich burn engine	
UD017PE1	30 TAC Chapter 117, East Texas Combustion	117E-0001	Unit Type = Engine is used exclusively in emergency situations.	
UD017PE1	40 CFR Part 60, Subpart JJJJ	60JJJJ-0001	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification prior to June 12, 2006.	
UD017PE1	40 CFR Part 63,	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500.	
	Subpart ZZZZ		Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.	
			Service Type = Emergency use.	
UD017PE2	30 TAC Chapter 117, East Texas Combustion	117E-0002	Unit Type = Engine is used exclusively in emergency situations.	
UD017PE2	40 CFR Part 60, Subpart JJJJ	60JJJJ-0001	Construction/Reconstruction/Modification Date = The stationary spark ignition (SI) internal combustion engine (ICE) commenced construction, reconstruction or modification prior to June 12, 2006.	
UD017PE2	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Service Type = Emergency use.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
UD031EG	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UD031EG	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0005	Brake HP = Stationary RICE with a brake hp greater than or equal to 100 and less than 250 hp. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Service Type = Emergency use. Stationary RICE Type = Compression ignition engine The rule citations we determined from an of the rule text and of determination.	
UDo56FP6	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UDo56FP6	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Service Type = Emergency use.	
UD057FP2R	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after July 11, 2005. Diesel = Diesel fuel is used. Kilowatts = Power rating is greater than or equal to 450 KW and less than or equal to 560 KW. Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement. Displacement = Displacement is less than 10 liters per cylinder. Service = CI ICE is a fire-pump engine, an emergency engine certified to National Fire Protection Association requirements. Standards = The emergency CI ICE does not meet the standards applicable to non-emergency engines. Commencing = CI ICE that is commencing new construction. Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions. Manufacture Date = Date of manufacture is after 07/01/2006. Model Year = CI ICE was manufactured in model year 2010. Install Date = The CI ICE was installed prior to 2012.	
UD057FP2R	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0002	Brake HP = Stationary RICE with a brake hp greater than 500. Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006. Service Type = Emergency use. Installation Date = The emergency use stationary RICE was installed on or after June 12, 2006.	
UD057PP1	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UD057PP1	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-0006	Brake HP = Stationary RICE with a brake hp greater than or equal to 100 and less than 250 hp. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Service Type = Emergency use. Stationary RICE Type = Compression ignition engine	The rule citations were determined from an analysis of the rule text and the basis of determination.

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
UD115FP10	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UD115FP10	40 CFR Part 63,	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500.	
	Subpart ZZZZ		Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.	
			Service Type = Emergency use.	
UD115FP9	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UD115FP9	40 CFR Part 63,	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500.	
	Subpart ZZZZ		Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.	
			Service Type = Emergency use.	
UD202FP12	40 CFR Part 60, Subpart IIII	60IIII-0001	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.	
UD202FP12	40 CFR Part 63,	63ZZZZ-0001	Brake HP = Stationary RICE with a brake hp greater than 500.	
	Subpart ZZZZ		Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.	
			Service Type = Emergency use.	
UD279EG	40 CFR Part 60, Subpart IIII	60IIII-0002	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after July 11, 2005.	
			Diesel = Diesel fuel is used.	
			Kilowatts = Power rating greater than or equal to 368 KW and less than or equal to 560KW.	
			Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement.	
			Displacement = Displacement is less than 10 liters per cylinder.	
			Service = CI ICE is an emergency engine.	
			Standards = The emergency CI ICE does not meet the standards applicable to non-emergency engines.	
			Commencing = CI ICE that is commencing new construction.	
			Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.	
			Manufacture Date = Date of manufacture is after 04/01/2006.	
			Model Year = CI ICE was manufactured in model year 2011.	
			Install Date = The CI ICE was installed in 2012 or later.	
UD279EG	40 CFR Part 63, Subpart ZZZZ		Brake HP = Stationary RICE with a brake hp greater than 500.	
			Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.	
			Service Type = Emergency use.	
			Installation Date = The emergency use stationary RICE was installed on or after June 12, 2006.	
UD030B11	40 CFR Part 60,	60D-0001	40 CFR 60 (NSPS) SUBPART D FUEL TYPE #1 = Gaseous fossil fuel.	
	Subpart D		CONSTRUCTION/MODIFICATION DATE = After December 22, 1976, and on or before September 18, 1978.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			COVERED UNDER SUBPART DA = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.	
			40 CFR 60 (NSPS) D CHANGES TO EXISTING AFFECTED FACILITY [NSPS D] = No change has been made to the existing fossil fuel-fired steam generating unit.	
			40 CFR 60 (NSPS) SUBPART D HEAT INPUT RATE = Heat input rate is greater than 250 MMBtu/hr (73 MW).	
			ALTERNATE 43D = No alternative requirement is used for SO ₂ , unit is complying with requirements of § 60.43(a) and (b).	
			ALTERNATE 42C = The facility is meeting the requirements of § 60.42(a) for PM.	
			ALTERNATE 44E = The facility is meeting the requirements of § 60.44(a), (b), and (d) for NO_x .	
			FLUE GAS DESULFURIZATION [NSPS D] = The unit does not utilize a flue gas desulfurization device.	
			PM CEMS = The facility does not use a CEMS to measure PM.	
			FUEL SAMPLING AND ANALYSIS = The unit uses fuel sampling and analysis for monitoring of sulfur dioxide emissions.	
			GAS OR LIQUID FUEL ONLY = Burns only gaseous or liquid fossil fuel (not residual oil) with potential SO ₂ emissions rates of 0.060 lb/MMBtu or less, does not use post combustion technology to reduce of SO ₂ or PM, and monitors SO ₂ emissions by sampling or fuel receipts.	
			CYCLONE-FIRED UNIT [NSPS D] = The unit is not a cyclone-fired unit.	
			FUELS WITH 0.03 PERCENT OR LESS SULFUR = Facility uses post combustion technology (except a wet scrubber) for reducing PM, SO ₂ , or CO, burns gaseous fuels or fuel oils that contain more than 0.30 % sulfur by weight or other fuels, or operates so CO emissions are > 0.15 lb/MMBtu average.	
			NOX MONITORING TYPE [NSPS D] = It was demonstrated during the performance test that emissions of NO_x are less than 70% of applicable standards in 40 CFR § 60.44.	
			PM CEMS PETITION = No petition has been granted to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions.	
UD030B11	40 CFR Part 60, Subpart Db	60Db-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 19, 1984.	
UD030B11	40 CFR Part 63, Subpart DDDDD	63DDDD-0001	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began on or before June 4, 2010.	
UD030B12	40 CFR Part 60,	60D-0002	40 CFR 60 (NSPS) SUBPART D FUEL TYPE #1 = Gaseous fossil fuel.	
	Subpart D		CONSTRUCTION/MODIFICATION DATE = After December 22, 1976, and on or before September 18, 1978.	
			COVERED UNDER SUBPART DA = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.	
			40 CFR 60 (NSPS) D CHANGES TO EXISTING AFFECTED FACILITY [NSPS D] = No change has been made to the existing fossil fuel-fired steam generating unit.	
			40 CFR 60 (NSPS) SUBPART D HEAT INPUT RATE = Heat input rate is greater than 250 MMBtu/hr (73 MW).	
			ALTERNATE 43D = No alternative requirement is used for SO ₂ , unit is complying with requirements of § 60.43(a) and (b).	
			ALTERNATE 42C = The facility is meeting the requirements of § 60.42(a) for PM.	
			ALTERNATE 44E = The facility is meeting the requirements of § 60.44(a), (b), and (d) for NO_x .	
			FLUE GAS DESULFURIZATION [NSPS D] = The unit does not utilize a flue gas desulfurization device.	
			PM CEMS = The facility does not use a CEMS to measure PM.	
			FUEL SAMPLING AND ANALYSIS = The unit uses fuel sampling and analysis for monitoring of sulfur dioxide	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			emissions.	
			GAS OR LIQUID FUEL ONLY = Burns only gaseous or liquid fossil fuel (not residual oil) with potential SO ₂ emissions rates of 0.060 lb/MMBtu or less, does not use post combustion technology to reduce of SO ₂ or PM, and monitors SO ₂ emissions by sampling or fuel receipts.	
			CYCLONE-FIRED UNIT [NSPS D] = The unit is not a cyclone-fired unit.	
			FUELS WITH 0.03 PERCENT OR LESS SULFUR = Facility uses post combustion technology (except a wet scrubber) for reducing PM, SO ₂ , or CO, burns gaseous fuels or fuel oils that contain more than 0.30 % sulfur by weight or other fuels, or operates so CO emissions are > 0.15 lb/MMBtu average.	
			NOX MONITORING TYPE [NSPS D] = It was demonstrated during the performance test that emissions of NO_x are less than 70% of applicable standards in 40 CFR § 60.44.	
			PM CEMS PETITION = No petition has been granted to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions.	
UD030B12	40 CFR Part 60, Subpart Db	60Db-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 19, 1984.	
UD030B12	40 CFR Part 63, Subpart DDDDD	63DDDDD-0001	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began on or before June 4, 2010.	
UDo3oB15	40 CFR Part 60,	60Db-0001	40 CFR 60 (NSPS) SUBPART DB FUEL TYPE #1 = Natural gas.	
	Subpart Db	part Db	60.42B(K)(2) LOW SULFUR EXEMPTION = The § 60.42b(k)(2) exemption applies.	
			CONSTRUCTION/MODIFICATION DATE = Constructed or reconstructed after February 28, 2005.	
			40 CFR 60 (NSPS) SUBPART DB FUEL TYPE #2 = Gaseous fossil fuel other than natural gas and coal-derived synthetic fuel meeting the definition of natural gas.	
			40 CFR 60 (NSPS) SUBPART DB HEAT INPUT CAPACITY = Heat input capacity is greater than 250 MMBtu/hr (73 MW).	
			PM MONITORING TYPE = No particulate monitoring.	
			40 CFR 60 (NSPS) SUBPART DA CORRESPONDING APPLICABILITIES [NSPS DB] = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da.	
			OPACITY MONITORING TYPE = No particulate (opacity) monitoring.	
			40 CFR 60 (NSPS) SUBPART DB CHANGES TO EXISTING AFFECTED FACILITY = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281.	
			NOX MONITORING TYPE = Continuous emission monitoring system.	
			ELECTRICAL OR MECHANICAL OUTPUT = 10% or less of the annual output is electrical or mechanical.	
			SO2 MONITORING TYPE = As-fired sampling.	
			SUBPART EA, EB OR AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA.	
			SUBPART J CORRESPONDING APPLICABILITIES = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J.	
			SUBPART E CORRESPONDING APPLICABILITIES = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E.	
			SUBPART KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK.	
			TECHNOLOGY TYPE = None.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			ACF OPTION - SO2 = Other ACF or no ACF.	
			SUBPART CB OR BBBB = The affected facility is not covered by an EPA approved State or Federal section 111(d)/129 plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines.	
			UNIT TYPE = OTHER UNIT TYPE	
			ACF OPTION - PM = Other ACF or no ACF.	
			HEAT RELEASE RATE = Natural gas with a heat release rate less than or equal to 70 MBtu/hr/ft³.	
			60.49DA(N) ALTERNATIVE = The facility is not using the § 60.49Da(n) alternative.	
			ACF OPTION - NOX = Other ACF or no ACF.	
			HEAT INPUT GAS/OIL = The facility combusts natural gas or distillate oil in excess of 30% of the heat input from the combustion of all fuels.	
			60.49DA(M) ALTERNATIVE = The facility is not using the § 60.49Da(m) alternative.	
UD030B15	40 CFR Part 63, Subpart DDDDD	63DDDD-0002	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began after June 4, 2010.	
UDo3oB8	40 CFR Part 60, Subpart D	60D-0001	CONSTRUCTION/MODIFICATION DATE = On or before August 17, 1971.	
UDo3oB8	40 CFR Part 60, Subpart Db	60Db-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 19, 1984.	
UDo3oB8	40 CFR Part 60, Subpart Dc	60Dc-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 9, 1989.	
UDo3oB8	40 CFR Part 63, Subpart DDDDD	63DDDDD-0001	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began on or before June 4, 2010.	
UDo3oB9	40 CFR Part 60, Subpart D	60D-0001	CONSTRUCTION/MODIFICATION DATE = On or before August 17, 1971.	
UDo3oB9	40 CFR Part 60, Subpart Db	60Db-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 19, 1984.	
UDo3oB9	40 CFR Part 60, Subpart Dc	60Dc-0001	CONSTRUCTION/MODIFICATION DATE = On or before June 9, 1989.	
UD030B9	40 CFR Part 63, Subpart DDDDD	63DDDD-0001	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began on or before June 4, 2010.	
UDo3oFL1	30 TAC Chapter	R1111-0001	ACID GASES ONLY [REG I] = Flare is not used only as an acid gas flare as defined in 30 TAC § 101.1.	
	111, Visible Emissions		EMERGENCY/UPSET CONDITIONS ONLY [REG I] = Flare is used under conditions other than emergency or upset conditions.	
UD030FL1	40 CFR Part 60, Subpart A	60A-0001	SUBJECT TO 40 CFR 60.18 = Flare is not subject to 40 CFR § 60.18.	
UD030FL1	40 CFR Part 63, Subpart A	63A-0001	REQUIRED UNDER 40 CFR 63 = Flare is not required by a Subpart under 40 CFR Part 63.	
UD030FG1	40 CFR Part 60, Subpart VV	60VV-0001	PRODUCES CHEMICALS LISTED IN 40 CFR 60.489 = DOES NOT PRODUCE ANY CHEMICAL LISTED IN 40 CFR 60.489 AS INTERMEDIATE OR FINAL PRODUCT	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**		
UD010CT6	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD040CT2	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD042CT4	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD045CT5	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD063CT3	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD136CT7	40 CFR Part 63, Subpart Q	63Q-0001	USED CHROMIUM COMPOUNDS AFTER SEPT. 8 1994 (MACT Q) = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.			
UD017PE1	30 TAC Chapter	R1111-0005	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.			
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.			
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).			
			Construction Date = On or before January 31, 1972			
			Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.			
UD017PE2	PE2 30 TAC Chapter 111, Visible Emissions	ter R1111-0006	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.			
			Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.			
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).			
				Construction Date = On or before January 31, 1972		
						Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
UD030B11	30 TAC Chapter 111, Visible Emissions	30 TAC Chapter	30 TAC Chapter	R1111-0002	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
		vent	Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.			
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).			
			Construction Date = On or before January 31, 1972			
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.			
UD030B12	30 TAC Chapter	R1111-0003	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.			
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.			
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in			

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	
UDo3oB15	30 TAC Chapter	R1111-0004	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.	
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	

^{* -} The "unit attributes" or operating conditions that determine what requirements apply
** - Notes changes made to the automated results from the DSS, and a brief explanation why

NSR versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification	For initial permit with application shield, can be issued
of an existing facility	after operation commences; significant revisions require
	approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not
	authorize new emissions
Ensures issued permits are protective of the	Applicable requirements listed in permit are used by the
environment and human health by conducting a	inspectors to ensure proper operation of the site as
health effects review and that requirement for	authorized. Ensures that adequate monitoring is in
best available control technology (BACT) is	place to allow compliance determination with the FOP.
implemented.	
Up to two Public notices may be required.	One public notice required. Opportunity for public
Opportunity for public comment and contested	comments. No contested case hearings.
case hearings for some authorizations.	
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources
	identified by the EPA.
Applies to facilities: a portion of site or individual	One or multiple FOPs cover the entire site (consists of
emission sources	multiple facilities)
Permits include terms and conditions under	Permits include terms and conditions that specify the
which the applicant must construct and operate	general operational requirements of the site; and also
its various equipment and processes on a facility	include codification of all applicable requirements for
basis.	emission units at the site.
Opportunity for EPA review for Federal	Opportunity for EPA review, Affected states review, and
Prevention of Significant Deterioration (PSD)	a Public petition period for every FOP.
and Nonattainment (NA) permits for major	
sources.	D '11 1' 11 1
Permits have a table listing maximum emission	Permit has an applicable requirements table and
limits for pollutants	Periodic Monitoring (PM) / Compliance Assurance
	Monitoring (CAM) tables which document applicable
Downits can be altered or amended upon	monitoring requirements.
Permits can be altered or amended upon	Permits can be revised through several revision
application by company. Permits must be issued before construction or modification of facilities	processes, which provide for different levels of public notice and opportunity to comment. Changes that would
can begin.	be significant revisions require that a revised permit be
can begin.	issued before those changes can be operated.
NSR permits are issued independent of FOP	FOP are independent of NSR permits, but contain a list
requirements.	of all NSR permits incorporated by reference
requirements.	of all 1951x permits incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.					
Authorization No.: 48589	Issuance Date: 01/31/2013				
Authorization No.: 5283	Issuance Date: 05/22/2007				
Authorization No.: 84724	Issuance Date: 08/19/2013				
Authorization No.: 85756	Issuance Date: 08/14/2008				
Authorization No.: 92682	Issuance Date: 12/28/2010				
Permits By Rule (30 TAC Chapter 106) for the Application Area				
Number: 106.122	Version No./Date: 09/04/2000				
Number: 106.261	Version No./Date: 11/01/2003				
Number: 106.262	Version No./Date: 11/01/2003				
Number: 106.263	Version No./Date: 11/01/2001				
Number: 106.352	Version No./Date: 09/04/2000				
Number: 106.355	Version No./Date: 09/04/2000				
Number: 106.371	Version No./Date: 09/04/2000				
Number: 106.472	Version No./Date: 09/04/2000				
Number: 106.476	Version No./Date: 09/04/2000				
Number: 106.511	Version No./Date: 09/04/2000				
Number: 106.532	Version No./Date: 09/04/2000				

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information		
ID No.: UD017PE1		
Control Device ID No.: NA	Control Device Type: NA	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0005	
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)	
Monitoring Information		
Indicator: Visible Emissions		
Minimum Frequency: once per calendar quarter		
Averaging Period: n/a		
Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 30%.		

Basis of monitoring:

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations. The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information		
ID No.: UD017PE2		
Control Device ID No.: NA	Control Device Type: NA	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0006	
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(A)	
Monitoring Information		
Indicator: Visible Emissions		
Minimum Frequency: once per calendar quarter		
Averaging Period: n/a		
Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 30%.		

Basis of monitoring:

Unit/Group/Process Information	
ID No.: UD030B11	
Control Device ID No.: NA	Control Device Type: NA
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0002
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	
Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the nermit holder	

Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 15%.

Basis of monitoring:

Unit/Group/Process Information		
ID No.: UD030B11		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-0001	
Pollutant: PM	Main Standard: § 60.42(a)(1)	
Monitoring Information		
Indicator: Visible Emissions		
Minimum Frequency: Once per week		
Averaging Period: n/a		

Averaging Period: n/a

Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 20%.

Basis of monitoring:

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information		
ID No.: UD030B11		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-0001	
Pollutant: NO _X	Main Standard: § 60.44(a)(1)	
Monitoring Information		
Indicator: NOx Concentration		
Minimum Frequency: Monthly		
Averaging Period: n/a*		
Deviation Limit: NOx concentration shall not exceed 86 ng/J heat input (0.20 lb/MMBtu).		

Basis of monitoring:

It is widely practiced and accepted to calibrate and use a portable analyzer or NOx CEMS/PEMS to measure NOx concentration with procedures such as EPA Test Method 7. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. Additionally, measuring the NOx concentration is provided as a monitoring option for any control device because an increase in NOx concentration may be indicative of the control device performance. Outlet NOx concentration has been used as an indicator in many federal and state rules.

^{*}The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information	
ID No.: UD030B12	
Control Device ID No.: NA	Control Device Type: NA
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0003
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	

Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 15%.

Basis of monitoring:

Unit/Group/Process Information		
ID No.: UD030B12		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-0002	
Pollutant: PM	Main Standard: § 60.42(a)(1)	
Monitoring Information		
Indicator: Visible Emissions		
Minimum Frequency: Once per week		
Averaging Period: n/a		

Averaging Period: n/a

Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 20%.

Basis of monitoring:

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information		
ID No.: UD030B12		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-0002	
Pollutant: NO _X	Main Standard: § 60.44(a)(1)	
Monitoring Information		
Indicator: NOx Concentration		
Minimum Frequency: Monthly		
Averaging Period: n/a*		
Deviation Limit: NOx concentration shall not exceed 86 ng/J heat input (0.20 lb/MMBtu).		

Basis of monitoring:

It is widely practiced and accepted to calibrate and use a portable analyzer or NOx CEMS/PEMS to measure NOx concentration with procedures such as EPA Test Method 7. The measured concentration along with stack flow rate or AP-42 factors and fuel consumption records may be used to demonstrate compliance with an underlying emission limit or standard. Additionally, measuring the NOx concentration is provided as a monitoring option for any control device because an increase in NOx concentration may be indicative of the control device performance. Outlet NOx concentration has been used as an indicator in many federal and state rules.

^{*}The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information	
ID No.: UD030B15	
Control Device ID No.: NA	Control Device Type: NA
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-0004
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: n/a	

Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 within 24 hours and opacity shall not exceed 15%.

Basis of monitoring:

Compliance Review
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on <u>01/21/2014</u> .
2. The compliance history review evaluated the period from 10/22/2008 to 10/22/2013.
Site rating: <u>0.87</u> Company rating: <u>0.59</u>
(High < 0.10 ; Satisfactory > 0.10 and < 55 ; Unsatisfactory > 55)
3. Has the permit changed on the basis of the compliance history or site/company rating?
Site/Permit Area Compliance Status Review
1. Were there any out-of-compliance units listed on Form OP-ACPS?No
2. Is a compliance plan and schedule included in the permit?No
Available Unit Attribute Forms
OP-UA1 - Miscellaneous and Generic Unit Attributes
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA3 - Storage Tank/Vessel Attributes
OP-UA4 - Loading/Unloading Operations Attributes
OP-UA5 - Process Heater/Furnace Attributes
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes
OP-UA7 - Flare Attributes
OP-UA8 - Coal Preparation Plant Attributes
OP-UA9 - Nonmetallic Mineral Process Plant Attributes
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes
OP-UA11 - Stationary Turbine Attributes
OP-UA12 - Fugitive Emission Unit Attributes
OP-UA13 - Industrial Process Cooling Tower Attributes
OP-UA14 - Water Separator Attributes
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
OP-UA16 - Solvent Degreasing Machine Attributes
OP-UA17 - Distillation Unit Attributes
OP-UA18 - Surface Coating Operations Attributes
OP-UA19 - Wastewater Unit Attributes
OP-UA20 - Asphalt Operations Attributes OP-UA21 - Grain Elevator Attributes
OP-UA22 - Printing Attributes OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes
OP-UA25 - Synthetic Fiber Production Attributes
OP-UA26 - Electroplating and Anodizing Unit Attributes
OP-UA27 - Nitric Acid Manufacturing Attributes
OP-UA28 - Polymer Manufacturing Attributes
OP-UA29 - Glass Manufacturing Unit Attributes
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
OP-UA31 - Lead Smelting Attributes
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes
OP-UA33 - Metallic Mineral Processing Plant Attributes
OP-UA34 - Pharmaceutical Manufacturing
OP-UA35 - Incinerator Attributes
OP-UA36 - Steel Plant Unit Attributes
OP-UA37 - Basic Oxygen Process Furnace Unit Attributes
OP-UA38 - Lead-Acid Battery Manufacturing Plant Attributes
OP-UA39 - Sterilization Source Attributes
OP-UA40 - Ferroalloy Production Facility Attributes

- OP-UA41 Dry Cleaning Facility Attributes
- OP-UA42 Phosphate Fertilizer Manufacturing Attributes
- OP-UA43 Sulfuric Acid Production Attributes
- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- OP-UA58 Treatment Process Attributes
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes